

Sl. No.	Description	Unit	No.	L	B	D	Qty	Rate	Amount
2	Providing granite slabs of selected quality roughly dressed having a size of 7.5 cms thick and fixed in cement mortar (1:6) including fixing curing etc., complete Page No. 27 / Item No. 5.31.1 PWD SR 2018-19								
	Damaged Slabs & Missing Slabs 35%	Sqm							
					Vide Item No. 2		677.57		
		Basic Rate	700.00						
		Area Weightage @ 6%	42.00				677.57	742.00	502753.00
		Total	742.00						
4	KSRB 4-1.3 : Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 Page No.13, Item No. 4.3 of PWD SR 2018-19								
	Culverts	Cum							
			1	6.00	2.00	0.15	1.80		
		Basic Rate	5102.00				1.80	5408.12	9735.00
		Area Weightage @ 6%	306.12						
		Total	5408.12						
5	KSRB 5.3-3 : Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 Page No. 25 / Item No. 5.9, PWD SR 2018-19								
		Cum							
			2	6.00	0.60	0.45	3.24		
		Basic Rate	5483.00				2.43		
		Area Weightage @ 6%	328.98				5.67	5811.98	32954.00
		Total	5811.98						
6	KSRB 15.1.3 Providing ruled pointing 20 mm deep to coursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications Page No. 115 / Item No. 15.3, PWD SR 2018-19								
		Sqm							
			2	6.00					
		Basic Rate	142.00		0.90	10.80			
		Area Weightage @ 6%	8.52			10.80	150.52	1626.00	
		Total	150.52						
7	Providing precast slab of 250mm thick including cost of all materials, labour, curing, transportation, loading unloading, etc., complete as per the direction of engineer in charge - (Data rate Approved).								
		Sqm							
			10	1.50	0.60	9.00			
						9.00	5418.00	48762.00	

Sl. No.	Description	Unit	No.	L	B	D	Qty	Rate	Amount
8	KSRB 5-14 : Providing and constructing load bearing wall with solid concrete blocks of size 400x150x200 mm having block density not less than 1800 kg/m ³ and having a minimum average compressive strength 4.00 N/mm ² conforming to IS 2185 (Part) : 2005 and constructed with CM 1:4, as per IS 2572:2005 including cost of all materials, labour charges, scaffolding, curing complete as per specifications. KBS No.5.4 Page No. 27 / Item No. 5.26.2, PWD SR 2018-19	Sqm							
	Sapthagiri Layout 2nd Cross S/S		2x2	25.00		0.40	40.00		
	Sapthagiri Layout 3rd Cross S/S		2x2	20.00		0.40	32.00		
	Sapthagiri Layout 4th Cross S/S		2x2	25.00		0.40	40.00		
	Sapthagiri Layout 5th Cross S/S		2x2	75.00		0.40	120.00		
	Sapthagiri Layout 3th Cross W/S		2x2	50.00		0.40	80.00		
	Sapthagiri Layout 4th Cross W/S		2x2	55.00		0.40	88.00		
	Basic Rate	924.00							
	Area Weightage @ 6%	55.44							
	Total	979.44					400.00	979.44	391776.00
9	KSRB 4-16 : Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregates @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. Page No.13, Item No. 4.6 PWD SR 2018-19	Cum							
	Bed Concrete								
	Sapthagiri Layout 2nd Cross S/S		2	25.00	0.45	0.10	2.25		
	Sapthagiri Layout 3rd Cross S/S		2	20.00	0.45	0.10	1.80		
	Sapthagiri Layout 4th Cross S/S		2	25.00	0.45	0.10	2.25		
	Sapthagiri Layout 5th Cross S/S		2	75.00	0.45	0.10	6.75		
	Sapthagiri Layout 3th Cross W/S		2	50.00	0.45	0.10	4.50		
	Sapthagiri Layout 4th Cross W/S		2	55.00	0.45	0.10	4.95		
	Coping Concrete								
	Sapthagiri Layout 2nd Cross S/S		2x2	25.00	0.20	0.10	2.00		
	Sapthagiri Layout 3rd Cross S/S		2x2	20.00	0.20	0.10	1.60		
	Sapthagiri Layout 4th Cross S/S		2x2	25.00	0.20	0.10	2.00		
	Sapthagiri Layout 5th Cross S/S		2x2	75.00	0.20	0.10	6.00		
	Sapthagiri Layout 3th Cross W/S		2x2	50.00	0.20	0.10	4.00		
	Sapthagiri Layout 4th Cross W/S		2x2	55.00	0.20	0.10	4.40		
	Culvert Coping		1	6.00	1.50	0.10	3.60		
	Ramp		2	6.00	1.00	0.15	3.60		
	Basic Rate	5422.00							
	Area Weightage @ 6%	325.32							
	Total	5747.32					49.70	5747.32	285642.00
10	Providing granite slabs of selected quality roughly dressed having a size of 10 cms thick and fixed in cement mortar (1:6) including fixing curing etc., complete Page No. 27 / Item No. 5.31.2 PWD SR 2018-19	Sqm							
	B S Slab Missing Covering								
	Sapthagiri Layout 2nd Cross S/S		2	25.00	0.90		45.00		
	Sapthagiri Layout 3rd Cross S/S		2	20.00	0.90		36.00		
	Sapthagiri Layout 4th Cross S/S		2	25.00	0.90		45.00		

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	Sapthagiri Layout 5th Cross S/S		2	75.00	0.90		135.00		
	Sapthagiri Layout 3th Cross W/S		2	50.00	0.90		90.00		
	Sapthagiri Layout 4th Cross W/S		2	55.00	0.90		99.00		
	Basic Rate	912.00		250.00			450.00	966.72	435024.00
	Area Weightage @ 6%	54.72							
	Total	966.72							
11	KSRB 5-9 : Providing chamfering edges to stone slab 2.5 cms. wide as per specifications. (only chamfered length shall be recorded) KBS 5.1.13 Page No. 26 / Item No. 5.22, PWD SR 2018-19	m	417	3.00			1250.00	61.48	76850.00
	Basic Rate	58.00							
	Area Weightage @ 6%	3.48							
	Total	61.48							
12	KSRB 300-49. Scarifying bituminous course 50mm to 75mm thick along with premix carpet / surface dressing by manual means without disturbing the base and stacking of the debris materials including cost of all labour charges complete as per specifications. MORTH / Chapter 3 Page No. 146 / Item No. 19.55 PWD SR 2018-19	Sqm							
	Sapthagiri Layout 2nd Cross S/S		1	47.00	4.00		188.00		
	Sapthagiri Layout 3rd Cross S/S		1	47.00	4.00		188.00		
	Sapthagiri Layout 4th Cross S/S		1	47.00	4.25		199.75		
	Sapthagiri Layout 5th Cross S/S		1	230.00	4.50		1035.00		
	Sapthagiri Layout 3th Cross W/S		1	173.00	5.50		951.50		
	Sapthagiri Layout 4th Cross W/S		1	173.00	5.50		951.50		
	Total Qty						3513.75		
	Consider 35% of the Total Qty						1229.81	95.40	117324.00
	Basic Rate	90.00							
	Area Weightage @ 6%	5.40							
	Total	95.40							
13	KSRB M400- Wet Mix Macadam KSRB M400-17. Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 Page No. 155 / Item No. 20.18, PWD SR 2018-19	Cum							
	Sapthagiri Layout 2nd Cross S/S		1	47.00	4.00	0.23	43.24		
	Sapthagiri Layout 3rd Cross S/S		1	47.00	4.00	0.23	43.24		
	Sapthagiri Layout 4th Cross S/S		1	47.00	4.25	0.23	45.94		
	Sapthagiri Layout 5th Cross S/S		1	230.00	4.50	0.23	238.05		
	Sapthagiri Layout 3th Cross W/S		1	173.00	5.50	0.23	218.85		
	Sapthagiri Layout 4th Cross W/S		1	173.00	5.50	0.23	218.85		
	Total Qty						808.16		
	Consider 35% of the Total Qty						242.45	2001.28	485208.00
	Basic Rate	1888.00							
	Area Weightage @ 6%	113.28							
	Total	2001.28							

Sl. No	Description	Unit	No	L	B	D	Qty	Rate	Amount
14	KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications. MORTH Specification No. 502 Page No. 158 / Item No. 21.6, PWD SR 2018-19	Sqm							
	Sapthagiri Layout 2nd Cross S/S		1	47.00	4.00		188.00		
	Sapthagiri Layout 3rd Cross S/S		1	47.00	4.00		188.00		
	Sapthagiri Layout 4th Cross S/S		1	47.00	4.25		199.75		
	Sapthagiri Layout 5th Cross S/S		1	230.00	4.50		1035.00		
	Sapthagiri Layout 3th Cross W/S		1	173.00	5.50		951.50		
	Sapthagiri Layout 4th Cross W/S		1	173.00	5.50		951.50		
	Total Qty						3513.75		
	Consider 35% of the Total Qty						1229.81	36.04	44322.00
	Basic Rate	34.00							
	Area Weightage @ 6%	2.04							
	Total	36.04							
15	KSRRB 500-11. Providing and laying bituminous macadam on prepared surface with crushed coarse aggregates as per design mix formula for base / binding course including loading of aggregates with F.E. loader, hot mixing of stone aggregates and bitumen in hot mix plant, transporting the mix material in tipper to paver and laying mixed materials with paver finisher to the required level and grade, rolling by power roller to achieve the desired density, but excluding cost of primer / tack coat including lead, lift and cost of all materials, labour, HOM of machineries complete as per specifications. MORTH /Chapter 5 - using 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 3.3 % VG-30 Bitumen Page No. 159 / Item No. 21.11.6, PWD SR 2018-19	Cum							
	Sapthagiri Layout 2nd Cross S/S		1	47.00	4.00	0.05	9.40		
	Sapthagiri Layout 3rd Cross S/S		1	47.00	4.00	0.05	9.40		
	Sapthagiri Layout 4th Cross S/S		1	47.00	4.25	0.05	9.99		
	Sapthagiri Layout 5th Cross S/S		1	230.00	4.50	0.05	51.75		
	Sapthagiri Layout 3th Cross W/S		1	173.00	5.50	0.05	47.58		
	Sapthagiri Layout 4th Cross W/S		1	173.00	5.50	0.05	47.58		
	Total Qty						175.69		
	Consider 35% of the Total Qty						61.49	5551.22	341348.00
	Basic Rate	5237.00							
	Area Weightage @ 6%	314.22							
	Total	5551.22							
16	KSRRB 500-2. Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH specification clause 501 Page No. 158 / Item No. 21.2, PWD SR 2018-19	Sqm							
	Sapthagiri Layout 2nd Cross S/S		1	47.00	4.00		188.00		
	Sapthagiri Layout 3rd Cross S/S		1	47.00	4.00		188.00		
	Sapthagiri Layout 4th Cross S/S		1	47.00	4.25		199.75		
	Sapthagiri Layout 5th Cross S/S		1	230.00	4.50		1035.00		

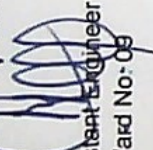
Sl. No.	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	Sapthagiri Layout 3th Cross W/S		1	173.00	5.50		951.50		
	Sapthagiri Layout 4th Cross W/S		1	173.00	5.50		951.50		
	Total Qty								
	Basic Rate	5.00					3513.75	5.30	18623.00
	Area Weightage @ 6%	0.30							
	Total	5.30							
17	KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH/Chapter 5 Page No. 158 / Item No. 21.7 PWD SR 2018-19	Sqm							
	asper Revised Basic Rate	14.00					3513.75		
	Area Weightage @ 6%	0.84					3513.75	14.84	52144.00
	Total	14.84							
18	KSRRB M500-19. Providing and laying bituminous concrete 40 mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 500.9 complete in all respects complete as per specifications. MORTH Specification No. 509 - using 4060 TPH capacity H.M.P. with Mechanical Paver Gr. II (30 mm to 45 mm) with 6 % VG-30 Bitumen Page No. 162 / Item No. 21.22.6, PWD SR 2018-19	Cum							
	Sapthagiri Layout 2nd Cross S/S	1	47.00	4.00	0.040		7.52		
	Sapthagiri Layout 3rd Cross S/S	1	47.00	4.00	0.040		7.52		
	Sapthagiri Layout 4th Cross S/S	1	47.00	4.25	0.040		7.99		
	Sapthagiri Layout 5th Cross S/S	1	230.00	4.50	0.040		41.40		
	Sapthagiri Layout 3th Cross W/S	1	173.00	5.50	0.040		38.06		
	Sapthagiri Layout 4th Cross W/S	1	173.00	5.50	0.040		38.06		
	Revised Basic Rate	7464.00					140.55	7911.84	1112009.00
	Area Weightage @ 6%	447.84							
	Total	7911.84							
19	KSRRB M800-13.Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface:- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectrising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803 Page No. 182, Item No. 24.15 PWD SR 2018-19	Sqm							
	Sapthagiri Layout 2nd Cross S/S	2	47.00	0.10			9.40		
	Sapthagiri Layout 3rd Cross S/S	2	47.00	0.10			9.40		
	Sapthagiri Layout 4th Cross S/S	2	47.00	0.10			9.40		
	Sapthagiri Layout 5th Cross S/S	2	230.00	0.10			46.00		

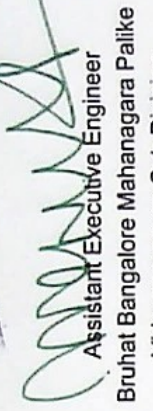
Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	Sapthagiri Layout 3th Cross W/S		2	173.00	0.10		34.60		
	Sapthagiri Layout 4th Cross W/S		2	173.00	0.10		34.60		
	Revised Basic Rate	429.00					143.40	454.74	65210.00
	Area Weightage @ 6%	25.74							
	Total	454.74							
	Sub Total								
	GST @ 12%								4463628.00
	Miscellaneous and other Charges	L/S							535635.00
									737.00
								Total	5000000.00

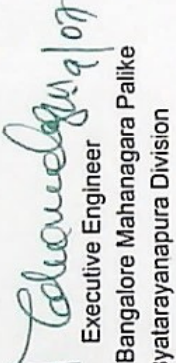
Rupees Fifty Lakh(s) Only

CERTIFICATE:

- 1 The work spot has been inspected and the work is found necessary.
- 2 This estimate is prepared as per PWD SR of 2018-19.
- 3 This work included under 2018-19 POW Grants.
- 4 The provisions were made in this estimate are necessary and adequate.
- 5 This works come under B.B.M.P. limits.


Assistant Engineer
Ward No: 09


Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidyanayapura Sub Division

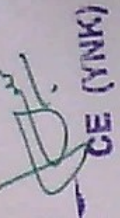

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

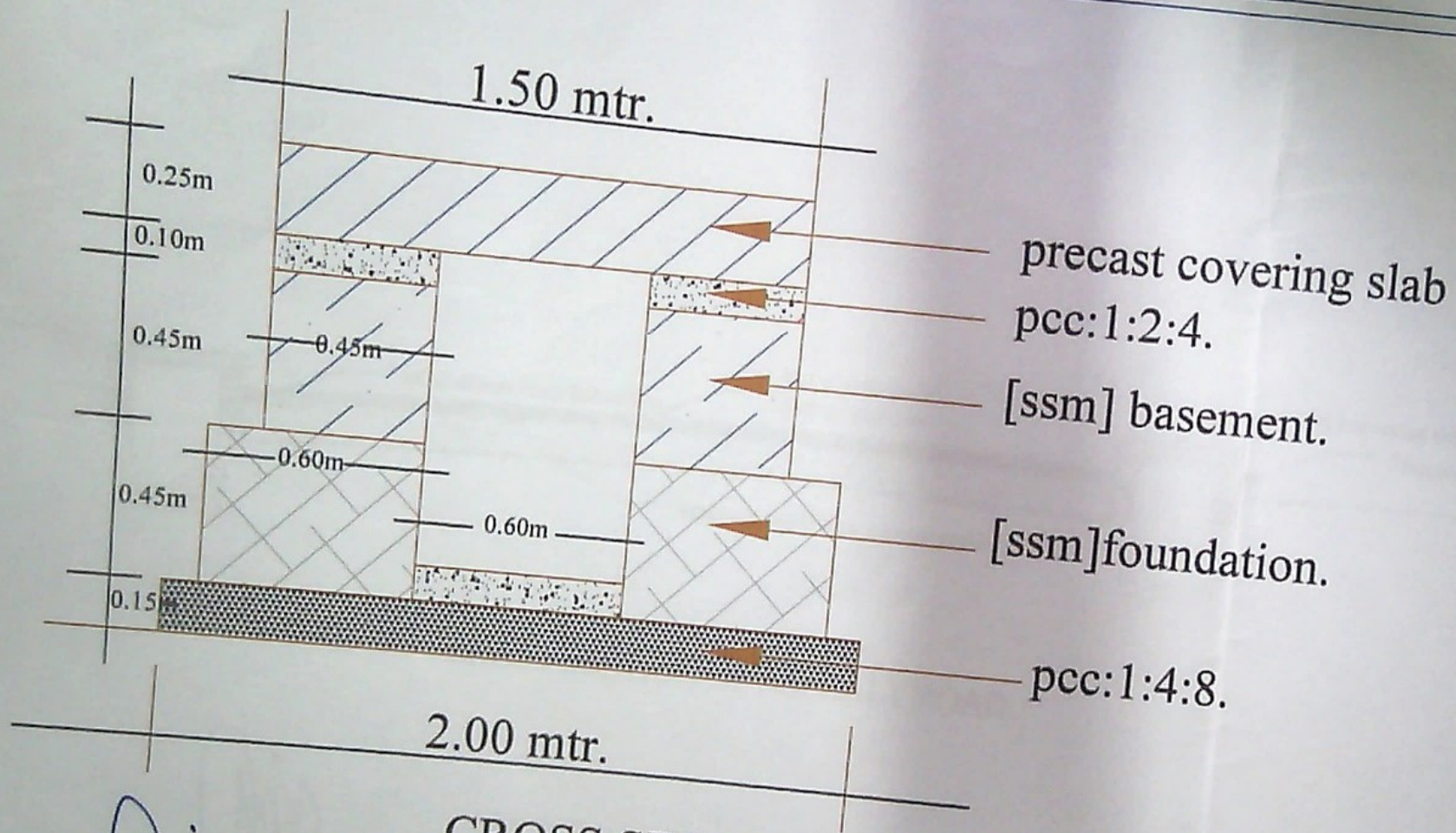
Administrative Approval

Accorded For *Rs 50 lakh only*
Head of A/C. *P.1274*
CER NO : *66* Dt: *10/07/2019*


CE (YNIQ)

Technical Sanction
Accorded For *Rs 50 lakh only*
Head of A/C. *P.1274*
CER NO : *80* Dt: *10/07/2019*

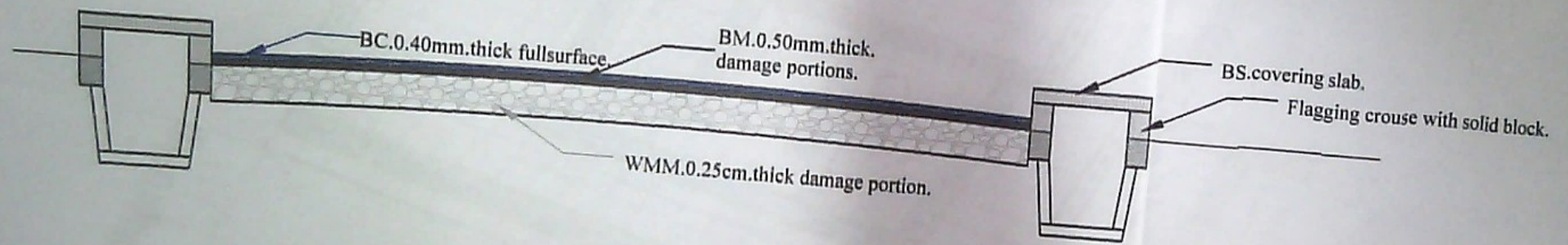

TA
CE (YNK)



CROSS SECTION OF CULVERT

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CROSS SECTION OF ASPHALT ROAD.

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M-10-09

BRUHAT BANGALORE MAHANAGARA PALIKE YELAHANKA ZONE

Name of the work: Estimate for Improvements and Asphaltting to Roads at Saphthagiri Layout and Surrounding areas in Ward No. 09 (Vidyaranyapura), Vidyaranyapura Sub Division.

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
Estimate Cost: 5000000.00									
1	KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 Page No. 143 / Item No. 19.1, PWD SR 2018-19								
	For Drain Desilting	Cum							
	Saphthagiri Layout 2nd Cross S/S		2	47.00	0.45	0.45	19.04		
	Saphthagiri Layout 3rd Cross S/S		2	47.00	0.45	0.45	19.04		
	Saphthagiri Layout 4th Cross S/S		2	47.00	0.45	0.45	19.04		
	Saphthagiri Layout 5th Cross S/S		2	230.00	0.45	0.45	93.15		
	Saphthagiri Layout 3th Cross W/S		2	173.00	0.45	0.40	62.28		
	Saphthagiri Layout 4th Cross W/S		2	173.00	0.45	0.40	62.28		
	Berm Cutting								
	Saphthagiri Layout 2nd Cross S/S		2	47.00	0.90	0.20	16.92		
	Saphthagiri Layout 3rd Cross S/S		2	47.00	0.90	0.20	16.92		
	Saphthagiri Layout 4th Cross S/S		2	47.00	0.90	0.20	16.92		
	Saphthagiri Layout 5th Cross S/S		2	230.00	0.90	0.20	82.80		
	Saphthagiri Layout 3th Cross W/S		2	173.00	0.90	0.20	62.28		
	Saphthagiri Layout 4th Cross W/S		2	173.00	0.90	0.20	62.28		
	Culvert		1	6.00	2.00	1.20	14.40		
							547.34	243.88	133484.00
	Basic Rate		130.00						
	Area Weightage @6%		7.80						
	Total		137.80						
	Add loading and unloading Charges It No 17.1								
	KSRRB M 100-1								
	Average weight of earth 1.28 tonne / kg for 11.90 Km =		68.00						
	1.28 T X 11.90Km X 2.5 / km= 38.08		38.08						
			243.88						
2	Removing and refixing stone slabs of drains and pointing in CM (1:3) Page No. 27 / Item No. 5.33 PWD SR 2018-19								
	BS Slab Drain	Sqm							
	Saphthagiri Layout 2nd Cross S/S		2	47.00		1.35	126.90		
	Saphthagiri Layout 3rd Cross S/S		2	47.00		1.35	126.90		
	Saphthagiri Layout 4th Cross S/S		2	47.00		1.35	126.90		
	Saphthagiri Layout 5th Cross S/S		2	230.00		1.35	621.00		
	Saphthagiri Layout 3th Cross W/S		2	173.00		1.35	467.10		
	Saphthagiri Layout 4th Cross W/S		2	173.00		1.35	467.10		
	BS Slab Drain Covering Slab								
	Saphthagiri Layout 2nd Cross S/S		2	47.00		0.90	84.60		
	Saphthagiri Layout 3rd Cross S/S		2	47.00		0.90	84.60		
	Saphthagiri Layout 4th Cross S/S		2	47.00		0.90	84.60		
	Saphthagiri Layout 5th Cross S/S		2	230.00		0.90	414.00		
	Saphthagiri Layout 3th Cross W/S		2	173.00		0.90	311.40		
	Saphthagiri Layout 4th Cross W/S		2	173.00		0.90	311.40		
							1290.60		
							-451.71		
							838.89		
							2774.79	111.30	308834.00
	Deduct 35% open space								
	Total Qty								
	Consider 25% of the Total Qty								
	Basic Rate		105.00						
	Area Weightage @ 6%		6.30						
	Total		111.30						